6600 ADVANCED BUSINESS PROCESSOR

The advanced internal architecture and extended user memory of the Datapoint 6600 make it the most powerful computer in the Datapoint family of dispersed data processing and business computing systems. Designed for compatibility with existing software and peripherals, the 6600 provides an excellent and economical upgrade path for present Datapoint users as well as a powerful top-end computing facility for new users.

The 6600 features 120K user memory, 16-bit wide internal architecture, 600 nanosecond memory cycle speed and enhanced instruction set. This computing facility, which is designed for use with disk-based systems, incorporates a typewriter-style keyboard plus 11-key numeric pad, video display, and dual cassette tape decks.

Utilized as a host computer for the multi-task, multi-user DATASHARE Business Timesharing System, the 6600 can support up to 24 Datapoint 3600 video display terminals. Each of the 3600 terminals can direct the execution of the same or different programs concurrently. Under memory partitioning software, the 6600 will support both these timesharing applications and batch programs to a remote site simultaneously.

As a stand-alone system, the 6600 is an extremely cost-effective facility that is easy to install, operate and maintain. Among the wide variety of peripherals that can be configured with the 6600 are Datapoint printers, disks, tapes, and synchronous and asynchronous communications equipment.

An extensive library of compatible software is available to support the 6600 and its peripherals, including tape and Disk Operating Systems, emulators, general business languages such as COBOL, RPGII, and BASIC, or special Datapoint languages such as DATABUS, DATASHARE, MULTILINK, and DATAFORM.

Functional Characteristics

Processor:
2 sets of eight 8-bit program accessible registers
16 deep pushdown stack
Hardware multiply/divide
4-bit instruction modification register
Multi-byte (string) instructions
Block transfer instructions
Multi-byte I/O transfer
State saving and restoring instructions
Privileged instructions
Address manipulation instructions
Indexing and basing
Segmented and protected memory
High-speed parallel I/O system

Keyboard:
Standard typewriter, 55 keys
11-key numeric pad
5 control keys
Audio tones

Video Display:
7x3.5 inch viewing area
80 columns by 12 rows (960 character positions)
Upper and lower case, plus special characters
5x7 dot matrix for high legibility
High-speed character display
Programmable display memory allows for generation of 128 characters under program control

Cassette Tapes:
Standard Philips cassettes
7.5 inches per second speed
Write forward or read forward
Slew forward and reverse
Rewind
Search forward and reverse mode
Approximately 120,000 character storage per tape side
Completely processor controlled

Memory:
8K system memory reservation
120K maximum user memory
0.6 microsecond cycle time
Parity checking
Parity bit
Memory allocation
Memory protection

Physical Characteristics

Equipment Dimensions:
Width: 18.5 in. (47 cm)
Height: 9.6 in. (24.5 cm)
Depth: 19.6 in. (49.9 cm)
Weight: 47 lbs. (21.3 kg)

Power Requirements:
115 VAC, 50 or 60 Hz
(240 VAC, 50 or 60 Hz optional)

Environment:
50 to 100 degrees F
10 to 38 degrees C
40 to 60% relative humidity, non-condensing

Model Codes
6600 Datapoint 6600, 120K User Memory,
       115 VAC, 50 or 60 Hz
5163 240 VAC, 50 or 60 Hz Power Option